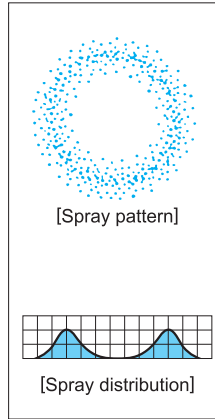


Extremely Fine Fog and Ultra-small Capacity Hollow Cone Spray Nozzles

KB



[Features]

- Ultra-small capacity hollow cone spray nozzle with the finest atomization among hydraulic nozzles.
- Capable of generating extremely fine spray.
- The whirl chamber is formed by a ceramic orifice and closer,^(*) which provides excellent wear resistance.

[Standard Pressure]

0.7 MPa

[Applications]

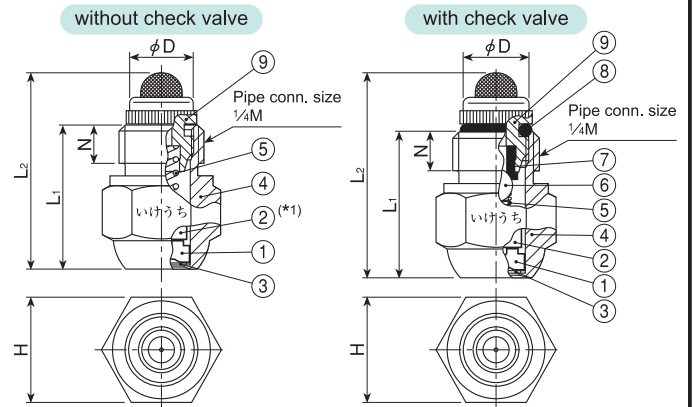
- Humidifying: Air handling units, green houses
- Cooling: Gas, thin plates, poultry
- Spraying: Alcohol, chemicals

Hollow Cone

KB series

KB series (with ceramic orifice inserted)	
Structure	<ul style="list-style-type: none"> ● Spray orifice and closer are made of ceramics. ● Male parallel pipe thread (G$\frac{1}{4}$B; PF$\frac{1}{4}$M). ● All models equipped with built-in strainers.
Material	<ul style="list-style-type: none"> ● Spray orifice & closer: ceramic ● Metal parts: S303 or B (brass)

Series	Dimensions (mm)					Mass (g)	
	L ₁	L ₂	H	ϕ D	N	S303	B
KB (w/o check valve)	22.5	31	17 (S303) 16 (B)	10.5	6	24.8	25
KB**CV (w/ check valve)	22.5	32	17 (S303) 16 (B)	10.5	6	25.3	25.5



- ①Ceramic orifice ②Ceramic closer^(*) ③Packing (PTFE) ④Body
 ⑤Spring ⑥Ball (S304) ⑦Packing (NBR) ⑧O-ring (NBR)
 ⑨Strainer (S303+S304 or B+S304)

[Note] Appearance and dimensions may differ slightly depending on materials and nozzle codes.

*1) In our newly-designed KB (with code N) nozzles (see p.47), the closer is made of polyester elastomer, not ceramic.

Spray Angle Code	Spray Capacity Code (*2)	Spray Angle (°)			Spray Capacity (ℓ/hr)										Mean Drop. Dia. (μm)	Free Pass. Dia. (mm)	Strainer Mesh Size
		0.3 MPa	0.7 MPa	2 MPa	0.3 MPa	0.4 MPa	0.5 MPa	0.6 MPa	0.7 MPa	1 MPa	1.2 MPa	1.5 MPa	2 MPa				
80	063N	65	80	80	1.36	1.55	1.72	1.86	2.00	2.35	2.56	2.83	3.22	45	0.20	200	
	071	—	80	80	—	1.70	1.90	2.08	2.25	2.69	2.95	3.29	3.81				0.15
	08	—	80	80	—	1.97	2.20	2.41	2.60	3.11	3.40	3.80	4.40	5	0.15	200	
	09	—	80	80	—	2.23	2.49	2.73	2.95	3.53	3.86	4.32	4.99				0.15
	10N	65	80	80	2.19	2.51	2.78	3.03	3.25	3.84	4.18	4.63	5.30	60	0.25	200	
	125N	65	80	80	2.77	3.16	3.51	3.82	4.10	4.84	5.27	5.84	6.68				60
	14	—	80	80	—	3.48	3.89	4.26	4.60	5.50	6.02	6.73	7.78	50	0.15	200	
	16N	65	80	80	3.51	4.02	4.47	4.88	5.25	6.22	6.79	7.55	8.66				0.35
	20N	65	80	80	4.41	5.06	5.62	6.13	6.60	7.82	8.53	9.49	10.9	0.40	150		
	22N	65	80	80	4.84	5.55	6.18	6.74	7.25	8.59	9.37	10.4	12.0			5	0.40
	25	70	80	80	5.40	6.24	6.97	7.64	8.25	9.87	10.8	12.1	14.0	0.25	150		
	28	70	80	80	6.05	6.99	7.82	8.56	9.25	11.1	12.1	13.5	15.7			0.30	150
	32	70	80	80	6.94	8.01	8.96	9.82	10.6	12.7	13.9	15.5	17.9	75	0.30		
	38	70	80	80	8.25	9.52	10.7	11.7	12.6	15.1	16.5	18.4	21.3			65	0.40
	45	70	80	80	9.79	11.3	12.6	13.9	15.0	17.9	19.6	21.9	25.3	0.40	100		
	50	70	80	80	10.9	12.6	14.0	15.4	16.6	19.9	21.8	24.3	28.1			0.40	100
	56	70	80	80	12.2	14.1	15.7	17.2	18.6	22.3	24.4	27.2	31.5	5	0.40		
	63	72	80	80	13.7	15.8	17.7	19.4	21.0	25.1	27.5	30.7	35.5			0.40	100
	71	72	80	80	15.5	17.8	20.0	21.9	23.6	28.2	30.9	34.6	39.9	0.50	100		
	80	72	80	80	17.5	20.2	22.6	24.7	26.7	31.9	35.0	39.0	45.1			0.50	100
90	73	80	80	19.6	22.7	25.4	27.8	30.0	35.9	39.3	43.9	50.8	110	0.50	100		
100	73	80	80	21.8	25.2	28.2	30.9	33.3	39.9	43.7	48.8	56.4				90	0.50
1250	73	80	80	27.2	31.5	35.2	38.5	41.6	49.8	54.5	60.9	70.4	0.50	100			
180	74	80	80	39.2	45.3	50.6	55.5	59.9	71.6	78.5	87.6	101			5	0.60	100
200	74	80	80	43.6	50.4	56.3	61.7	66.6	79.7	87.3	97.5	113	0.60	100			
320	75	80	80	69.7	80.5	90.0	98.6	107	127	140	156	180			210	0.60	100
60	063	—	60	60	—	1.51	1.69	1.85	2.00	2.39	2.62	2.93	3.38	45			
	14	—	60	60	—	3.48	3.89	4.26	4.60	5.50	6.02	6.73	7.78		5	0.15	200
	32	—	60	60	—	8.01	8.96	9.82	10.6	12.7	13.9	15.5	17.9	0.30			
	56	50	60	60	12.2	14.1	15.7	17.2	18.6	22.3	24.4	27.2	31.5		90	0.40	100
	140	53	60	60	30.5	35.2	39.4	43.2	46.6	55.7	61.0	68.2	78.8	130			
	280	54	60	60	61.0	70.5	78.8	86.4	93.2	112	122	136	158		190	0.60	100

*2) Spray Capacity Code with N is our newly-designed KB series. See page 47 for the features.

[Note]

The spray capacity of KB series nozzles is shown as ℓ/hr. The spray capacity code does not correspond with the spray capacity at the standard pressure.